

Cyclin D2 promoter, MSP primers  
Accn. No. U47284 Promoter region analyzed: -1616 to -1394 bp

FIGURE 1A

MSB Unmethylated 223 BP

GT T AGT TAGT GT GT ATG

T AAAATCCC AACAATCA

MSB Methylated 276 BP

TAC CCTAGGC CATCC

CCA AATATCCC CAAACC

Forward UM 22 BP MT 56

Reverse UM 21 BP MT 56

FIGURE 1B

**Twist Promoter:** Accn No. AC003986  
Promoter Region analyzed: nts -51145 TO -511750

1	cattggactg	ggtttccctc	cac <u>CC</u> gaagag	tgaacttctg	cctcttt <u>CG</u>	gcaccc <u>CC</u>
61	agg <u>CG</u> tagtc	cttggatgt	tggg <u>gg</u> ac <u>CG</u> t	caga <u>ct</u> gggt	<u>CG</u> ttgttagag	gggaaaggag
1121	ggccc <u>gg</u> aag	gg <u>CC</u> gagag	cagg <u>CC</u> gga	<u>CC</u> caa <u>at</u> cc	cagcccc <u>CC</u>	<u>CC</u> GG <u>CC</u> cc <u>CC</u>
1181	<u>CG</u> tcttc <u>gg</u> aa	ac <u>GG</u> ccaggac	ct <u>CC</u> GGggctg	gg <u>CC</u> <u>GG</u> cc <u>CC</u>	gttggcc <u>tt</u>	tggaa <u>ct</u> caa
241	gggtt <u>CG</u> tct	ac <u>ct</u> tgaccat	tgggtggctc	<u>CC</u> GGgtt <u>g</u> ac	acttt <u>tctt</u> g	gcatggcccc
301	ccaccc <u>CC</u> <u>GG</u>	ccacaccacc	cccc <u>cc</u> aggcc	aat <u>CG</u> gcccc	a <u>CG</u> gcccc	a <u>CG</u> gacc <u>tt</u> cg
361	agggtcttg	gg <u>CC</u> gagatga	gacat <u>cc</u> ccc	actgtgt <u>aga</u>	agctgtt <u>gg</u> cc	attgtgt <u>g</u> ctg
421	tcacagcc <u>aa</u>	gg <u>GG</u> gg <u>GG</u> cc	gg <u>GG</u> gg <u>GG</u> cc	<u>CG</u> tt <u>cc</u> cc <u>GG</u>	agtct <u>cc</u> tc <u>CC</u>	<u>Gac</u> <u>CC</u> tt <u>CC</u>
481	tgggt <u>CG</u> cc	taggtt <u>CG</u> gg	gg <u>GG</u> gg <u>GG</u> cc	<u>CC</u> ca <u>CG</u> ct <u>cc</u>	<u>Ggg</u> gg <u>GG</u> aa <u>at</u>	<u>CG</u> ccc <u>cc</u>
541	<u>CC</u> CC <u>CC</u> <u>GG</u> CC	gagg <u>gg</u> gg <u>CC</u>	<u>Ga</u> <u>CC</u> gg <u>gg</u> gg	<u>GG</u> gg <u>gg</u> gg <u>gg</u>	<u>GG</u> g <u>ct</u> agg	agg <u>GG</u> gt <u>gg</u>
601	agg <u>GG</u> gg <u>GG</u>	<u>CC</u> CC <u>CC</u> <u>GG</u> CC	<u>CC</u> CC <u>CC</u> <u>GG</u> CC	t <u>ga</u> at <u>gg</u> tt	gg <u>gg</u> gg <u>gg</u> ac <u>CG</u> a	attgttagac
661	cccc <u>gg</u> aa <u>gg</u>	gg <u>gg</u> gg <u>gg</u> gg	<u>CG</u> gg <u>gg</u> gg <u>gg</u>	gg <u>gg</u> gg <u>gg</u> gg <u>gg</u>	<u>GG</u> gg <u>gg</u> aa <u>ac</u> tt	tc <u>ctt</u> ataaaaa
721	tt <u>GG</u> aaa <u>gg</u>	tcc <u>cc</u> tt <u>cc</u> cc	tc <u>cc</u> GG <u>tt</u> cc <u>gg</u>	gg <u>gg</u> gg <u>gg</u> gg <u>gg</u>	tg <u>ct</u> gg <u>gg</u> gg <u>gg</u>	aa <u>actt</u> cc <u>CC</u>
781	cct <u>gg</u> ca <u>GG</u> ga	gg <u>tt</u> aa <u>gg</u> ag	cc <u>tt</u> cc <u>aa</u> gg <u>cc</u>	gg <u>gg</u> gg <u>gg</u> gg <u>gg</u>	<u>Gccc</u> aa <u>tt</u> cc <u>cc</u>	<u>Gcc</u> aa <u>tt</u> cc <u>cc</u>
841	<u>GC</u> gg <u>gt</u> ct <u>tg</u>	cag <u>cc</u> ac <u>CC</u> gg	ac <u>CC</u> tt <u>cc</u> ca	gg <u>gg</u> gg <u>gg</u> gg <u>gg</u>	<u>CG</u> gg <u>gg</u> gt <u>tg</u> <u>CC</u>	<u>Gt</u> cc <u>cc</u> gg <u>CC</u> gt
901	tgg <u>GG</u> ct <u>tt</u>	ct <u>ttt</u> gg <u>gg</u>	cc <u>tt</u> GG <u>gg</u> cc	at <u>cc</u> ac <u>ac</u> cc <u>CC</u>	t <u>ccc</u> cc <u>ttt</u> cc <u>cc</u>	<u>Ct</u> cc <u>cc</u> gg <u>CC</u> cc <u>cc</u>
961	c <u>cc</u> cc <u>GG</u> cc	t <u>ccc</u> cc <u>GG</u> cc	<u>Gcc</u> cc <u>cc</u> <u>GG</u> cc	<u>CC</u> gg <u>gg</u> gt <u>cc</u> cc	<u>tcc</u> cc <u>GG</u> cc <u>GG</u>	<u>cct</u> cc <u>tt</u> gg <u>CC</u> cc <u>cc</u>
1021	t <u>ct</u> cc <u>tt</u> <u>CC</u> cc	<u>Ggg</u> cc <u>GG</u> cat <u>CC</u>	<u>Gcc</u> cc <u>GG</u> cc <u>GG</u>	<u>GG</u> gg <u>gg</u> gg <u>gg</u> gg	<u>Ggg</u> gg <u>gg</u> aa <u>ag</u> cc	<u>tgg</u> GG <u>gg</u> ct <u>gt</u>
081	agg <u>GG</u> cc <u>GG</u>	ct <u>ttt</u> cc <u>tt</u> cc <u>tt</u>	ct <u>gg</u> cc <u>cc</u> <u>GG</u> gg	<u>CC</u> GG <u>gg</u> gg <u>gg</u> gg	<u>cac</u> GG <u>gg</u> gt <u>cc</u> cc <u>cc</u>	<u>Cg</u> ct <u>cc</u> GG <u>gg</u> ag <u>ag</u>
1141	at <u>cg</u> agg	ct <u>CG</u> cc <u>gg</u> cc <u>gt</u>	<u>CC</u> GG <u>gg</u> cc <u>gg</u> cc <u>gt</u>	<u>CC</u> GG <u>gg</u> cc <u>gg</u> cc <u>gt</u>	<u>ac</u> GG <u>gg</u> cc <u>gg</u> cc <u>gt</u>	<u>gag</u> cc <u>ac</u> cc <u>gg</u> cc <u>gt</u>
201	gagg <u>aa</u> agg <u>cc</u>	c <u>ag</u> ac <u>cc</u> GG <u>gg</u>	g <u>ca</u> g <u>cc</u> GG <u>gg</u>	<u>CC</u> GG <u>gg</u> cc <u>gg</u> cc <u>gt</u>	<u>ag</u> GG <u>gg</u> cc <u>gg</u> cc <u>gt</u>	<u>caag</u> GG <u>gg</u> cc <u>gg</u> cc <u>gt</u>
261	ac <u>GG</u> cc <u>gg</u> cc <u>gg</u>	<u>Gcc</u> cc <u>GG</u> cc <u>gg</u>	<u>Gcc</u> cc <u>GG</u> cc <u>gg</u>	<u>GG</u> gg <u>gg</u> cc <u>gg</u> cc <u>gt</u>	<u>gg</u> GG <u>gg</u> cc <u>gg</u> cc <u>gt</u>	<u>gggg</u> GT <u>gg</u> gt <u>gg</u>
321	<u>GG</u> GG <u>gg</u> cc <u>gg</u>	ag <u>cc</u> GG <u>gg</u> cc <u>gg</u>	<u>CC</u> GG <u>gg</u> cc <u>gg</u> cc <u>gg</u>	<u>CC</u> GG <u>gg</u> cc <u>gg</u> cc <u>gg</u>	<u>gag</u> GG <u>gg</u> cc <u>gg</u> cc <u>gg</u>	<u>tgg</u> GG <u>gg</u> cc <u>gg</u> cc <u>gg</u>
381	<u>GG</u> GG <u>gg</u> cc <u>gg</u>	<u>Gcc</u> cc <u>GG</u> cc <u>gg</u>	<u>Gcc</u> cc <u>GG</u> cc <u>gg</u>	<u>Gcc</u> cc <u>GG</u> cc <u>gg</u>	<u>Gcc</u> cc <u>GG</u> cc <u>gg</u>	<u>gag</u> GG <u>gg</u> cc <u>gg</u> cc <u>gg</u>
441	ag <u>ct</u> tg <u>cc</u> agg	<u>Gcc</u> cc <u>GG</u> cc <u>gg</u>	<u>Gcc</u> cc <u>GG</u> cc <u>gg</u>	<u>Gcc</u> cc <u>GG</u> cc <u>gg</u>	<u>Gcc</u> cc <u>GG</u> cc <u>gg</u>	<u>tgg</u> GG <u>gg</u> cc <u>gg</u> cc <u>gg</u>
501	c <u>at</u> gt <u>GG</u> ct <u>ga</u>	<u>CC</u> GG <u>gg</u> cc <u>gg</u>	<u>CC</u> GG <u>gg</u> cc <u>gg</u>	<u>CC</u> GG <u>gg</u> cc <u>gg</u>	<u>CC</u> GG <u>gg</u> cc <u>gg</u>	<u>tccc</u> cc <u>cc</u> GG <u>gg</u> cc <u>gg</u>

FIGURE 2A

1561 aagctgagca agattcagac cctcaagctg **gC**gccagg acatCGactt cctctaccag  
1621 gtcctccaga gCgacCGaggct ggactccaaatggcaagg atggcaagg cctgggtccat  
1681 **CG**gttcagg acGcttctC **G**tctggagg atgggggg cttgggtccat  
1741 caggcccccccc cacccccctca gcaaggccgg aagaccttagt aaggaccCCG

FIGURE 2B

## Unmethylated 193 BP

Et **TGatgggt** Egtaatt**TGT** FUM (3) 21 BP AT 58

Method stated 200 BP

卷之三

卷之三

FIGURE 2C

RAR beta promoter, MSP primers

ACCN NO. AF157483

Promoter region analyzed: nt -196 to nt -357

FIGURE 3A

Unmethylated 163 BP

ggatggatgtttggaa aTGT FUM 21 BP AT 60

CAaCcAatccca accAaaaCAd RUM 21 BP AT 60

Methylated 142 BP

gaaccGggccatccagg FM (2) 19 BP AT 60

GaccAatccca accGaaaCC RM (2) 19 BP AT 58

FIGURE 3B

Homo sapiens serine protease-like protease (nes1) mRNA, complete cds  
AF024605  
ACCESSION

1 accaggcca gaccacaggc agatccggc catgagagct cggcacctcc acctctccg  
61 ggcgactccc gcccgggctc tggcgaagct gctgccgtg ctgatggcgc aacttgggc  
121 gcccgggctc cccaaaacga cacgcgttg gaccccgaa gctatggcgc cccgtgcgc  
181 gcgctgtcc agccctggca ggtctcgct ttaaacggcc tctcgttcca ctgcgggg  
241 cgggctcgc accaggttg ggtgctgacg gccggcaact gggaaacaa gccactgtgg  
301 gtcctgggg accaggttg cctgctgtt cttcaggccg agcagctccg cggacgact  
361 gtcggatgtt gggatgtca cttcaggccg ggctcaggcc ccatccgtcc aaggcgaacg  
421 cgctctgtt tccatccaa gtaccacca ggttgggg tagtgggg  
481 gatggcacg atctcatgtt gctaaagctg gccaggccgg tagtgggg  
541 cggccctgc agcttccctaa cgcgtgtgtt cagccggag accagtggca ggttgctgg  
601 tggggacca cggccggccg gagggtgaag tacaacaagg gcctgacctg ctccagcatc  
661 actatccgtt gcccctaaga gtttggggc ttctaccctg gcgtggtcac caacaacatg  
721 atatgtgtt gactggaccg gggccaggac ctttggggc ttaccctg gtgactctgg agggccctg  
781 gtctgtgacg agaccctcca aggcatccctt ctttggggc ttaccatgt cctggatcaa taaagtata  
841 cagcatcccg ctgtctacac ccagatctgc ttggggc ttaccatgt cctggatcaa taaagtata  
901 cgctccaaact gatcccgatg ctacgctcca gctgtatccg atgttatgtt cctggatcatc  
961 cagatggccca gaggtcccat ctttggggc ttggggatccg atgttatgtt cctggatcatc  
1021 tgtctgcact gttcaaaacct ctttggggc ttggggatccg atgttatgtt cctggatcatc  
1081 cattccccca ctttggggc ttggggatccg atgttatgtt cctggatcatc  
1141 caaaggtttta ttccaggagaa gccaggaaagg ccggatccg atgttatgtt cctggatcatc  
1201 ctggggtcac ccaacctgtac ttccctgtt ccggatccg atgttatgtt cctggatcatc  
1261 agtgcctctt ctgaacctca gtttccat ctttggggc ttggggatccg atgttatgtt cctggatcatc  
1321 tcttagacat gttgtggggaa gactatgata taacatgtt atgttatgtt cctggatcatc  
1381 gtcatgtaaag gcttaaacaca gtgggtggtg agttctgact aaaggttacc ttggggatccg  
1441 aaaaaaaaaaa aaaaaaa

**FIGURE 4A**

Sequence analyzed: nts +169 to +349  
Exon 3 sequence

ccccggggCGggctCG ccccaaaaCG acaCGCGtt ggacCCaaCGtttggCGcc  
GCGGgctCG cagccctggc aggtctCGct cttaCGccCGtttCGtttCGtttCGttt  
gggtgctgaC GCGCGaaCGaaaaCG

FIGURE 4B

Unmethylated 128 BP  
tTGggGT GGTGttttt Nes1 FUM 20 BP AT 56  
CACaaaaUaaaaACCA Nes1 RUM 22 BP AT 56

Methylated 137 BP  
ttCCaaGGttatGGttTC Nes 1 FM 20 BP AT 56  
ttttCCcaAAccCCcc Nes1 RM 20 BP AT 58

FIGURE 4C

HOX A5 Promoter 3' to 5'	AC004080
16321 accaaggagg	actggggagg gg <u>CG</u> ggcagg aagaggagggg gg <u>ac</u> CC <u>G</u> agg
16381 <u>gG</u> gt <u>CG</u> <u>CG</u> t	ggatttagaa aaaggctggc ttaccatga cttatgtca gcttgc <u>G</u> cat
16441 ccaggggtag	atctgggtt ggg <u>CG</u> gg <u>CG</u> g <u>G</u> ct <u>CG</u> ct <u>C</u> G <u>g</u> ct <u>CG</u> act <u>C</u> <u>G</u> cccctctt
16501 ctgct <u>CG</u> ct <u>g</u>	ctggcagggg <u>CG</u> t <u>cc</u> <u>ct</u> <u>CG</u> G <u>g</u> ac <u>C</u> G <u>CC</u> <u>G</u> tgccaa
16561 gctgct <u>g</u> at <u>g</u>	ttgggtgctgc <u>CG</u> g <u>CG</u> <u>t</u> <u>CG</u> gg <u>CG</u> CG <u>agg</u> <u>CG</u> <u>CG</u> ctggaggttgc
16621 tt <u>ccc</u> <u>CG</u> <u>CCG</u>	ttgggtgctgt <u>CG</u> c <u>t</u> <u>g</u> cc <u>CG</u> gg <u>CG</u> agggc <u>ag</u> <u>CG</u> <u>G</u> gg
16681 at <u>CG</u> gg <u>gt</u> ga	ttgg <u>CG</u> gg <u>CG</u> tgg <u>CG</u> gg <u>CG</u> <u>CG</u> g <u>ct</u> <u>g</u> ct <u>g</u> g <u>ct</u> <u>g</u> tacctgggt
16741 <u>CCG</u> <u>ct</u> <u>g</u> <u>CG</u>	ttgg <u>CG</u> gg <u>CG</u> <u>CG</u> <u>G</u> ct <u>ct</u> <u>CG</u> g <u>ag</u> cc <u>aa</u> u <u>ag</u> t gg <u>cc</u> <u>G</u> gg <u>ag</u> cc
16801 <u>CG</u> <u>ag</u> <u>CG</u> <u>CCG</u>	ccatggccatt <u>CG</u> g <u>at</u> <u>g</u> ct <u>g</u> tag <u>CC</u> <u>G</u> tag <u>CG</u> g <u>at</u> <u>g</u> tg <u>ca</u> t <u>at</u> g <u>ca</u> act <u>tg</u>
16861 gct <u>CG</u> <u>C</u> <u>G</u> ag	ttcc <u>ct</u> <u>g</u> tc <u>ca</u> <u>C</u> g <u>ga</u> act <u>at</u> ga t <u>ct</u> cc <u>at</u> aa <u>at</u> a <u>ca</u> aaaa <u>aa</u> u <u>ag</u> ag <u>ct</u> <u>tt</u> <u>g</u>
16921 gtagt <u>cc</u> <u>CG</u> gg	ccatttggat <u>ag</u> <u>CG</u> <u>ac</u> <u>CC</u> <u>G</u> ca aa <u>at</u> g <u>ag</u> ttt <u>tgt</u> <u>g</u> <u>CG</u> <u>gt</u> <u>CG</u> <u>t</u> t <u>at</u> tt <u>gt</u> <u>gg</u> ct <u>CG</u>
16981 ttttt <u>gt</u> ata	tgtgt <u>gt</u> ct <u>tg</u> att <u>tt</u> tt <u>gt</u> <u>gg</u> ct <u>CG</u> <u>gt</u> <u>CG</u> <u>t</u> t <u>at</u> tt <u>gt</u> <u>gg</u> ct <u>tt</u> cc <u>ct</u> <u>cc</u> <u>ta</u> <u>CG</u> <u>ta</u>
17041 gacaattta	tgtgaattta tggaaat <u>tg</u> ac tgg <u>gg</u> acat <u>tg</u> acttgg <u>tt</u> cc <u>tgt</u> <u>gt</u> <u>cc</u> <u>ca</u> tag <u>cc</u> <u>cc</u> <u>tt</u>
17101 ggacccaaa	tatggggta <u>C</u> G <u>ac</u> <u>tt</u> <u>CG</u> <u>aa</u> <u>t</u> c <u>a</u> <u>c</u> <u>G</u> <u>t</u> <u>g</u> <u>ct</u> <u>tt</u> <u>t</u> <u>CG</u> <u>ta</u> <u>aa</u> <u>t</u> <u>cc</u> <u>ca</u>
17161 tgcctgtat <u>g</u>	cctct <u>g</u> agg <u>gg</u> taaa <u>act</u> <u>CG</u> <u>tg</u> cactaa <u>ta</u> agg g <u>g</u> agg <u>tt</u> gg <u>gt</u> g <u>g</u> agg <u>gg</u> <u>GG</u> agg
17221 gggt <u>gg</u> <u>CG</u> <u>CC</u>	gg <u>gg</u> <u>gg</u> <u>CG</u> <u>CC</u> <u>CC</u> <u>CG</u> g <u>g</u> <u>CC</u> <u>GG</u> <u>CC</u> <u>gg</u> <u>CG</u> <u>CC</u> <u>cc</u> <u>ca</u> <u>gg</u> <u>ct</u> <u>ca</u> t <u>g</u> <u>cc</u> <u>CC</u> <u>GG</u> <u>tt</u> c <u>ag</u> <u>cc</u> <u>CC</u> <u>gg</u> <u>act</u>
17281 <u>CG</u> <u>ag</u> <u>CG</u> <u>cc</u> <u>ac</u>	<u>CG</u> <u>cc</u> <u>ac</u> <u>cc</u> <u>cc</u> <u>CG</u> c <u>ag</u> <u>gg</u> <u>ct</u> <u>ca</u> <u>gg</u> c <u>ag</u> <u>gg</u> <u>ct</u> <u>ca</u> <u>gg</u> c <u>at</u> <u>gg</u> <u>cc</u> <u>aa</u> <u>at</u> <u>tt</u> at <u>tg</u> <u>cc</u> <u>aa</u> <u>at</u> <u>tt</u> cc <u>c</u> <u>c</u> <u>t</u> <u>CG</u> <u>cc</u> <u>at</u> <u>tt</u> tt <u>cc</u>
17341 <u>CG</u> <u>gg</u> <u>gt</u> <u>CG</u> <u>ta</u>	<u>CG</u> <u>gg</u> <u>gt</u> <u>CG</u> <u>ta</u> att <u>tg</u> <u>gg</u> <u>gt</u> <u>ta</u> c <u>ag</u> <u>cc</u> <u>cc</u> <u>at</u> <u>ta</u> t <u>gg</u> <u>cc</u> <u>aa</u> <u>at</u> <u>tt</u> tt <u>cc</u> <u>c</u> <u>c</u> <u>t</u> <u>CG</u> <u>cc</u> <u>at</u> <u>tt</u> tt <u>cc</u>
17401 ccatt <u>gg</u> at <u>g</u>	ccatt <u>gg</u> at <u>g</u> gt <u>ac</u> <u>cc</u> <u>aa</u> <u>at</u> <u>tt</u> gg <u>t</u> <u>t</u> <u>ag</u> <u>gg</u> <u>cc</u> <u>aa</u> <u>at</u> <u>tt</u> gg <u>CG</u> <u>gg</u> <u>at</u> <u>g</u> <u>g</u> <u>CG</u> <u>GG</u> <u>CC</u> <u>CG</u>
17461 agaggatt <u>g</u>	agaggatt <u>g</u>

FIGURE 5A

Complement - 5' to 3'

Promoter region analyzed: nts -97 to nts -303

FIGURE 5B

UnMethylated 223 BP

**TGttTG** aagtgtggTG FUM 18 BP AT 56

gtatTGtg attTGaaagtT Gtatt

ataac Aacttcaaaat caacAAac

RUM 22 BP AT 56

Methylated 183 BP

ttggCg gtggccttcg FM 18 BP AT 58

tacCGtg attCGaaagtC Gtat

tacC GaaatCCaaat caCCGtc RM 20 BP AT 56

FIGURE 5C

Sequencing 307 BP

attttgtta taatgggttg taat Hox A5 Seq. F 23 BP AT 56

qqag ggat~~aa~~at~~tt~~at~~tt~~

accatat actthaatcc ctcctt

卷之三

卷之三

ccaggat a caggccaggccg ac

卷之三

### FIGURE 3D

*Homo sapiens* 14-3-3 sigma protein promoter and gene, complete cds.  
ACCESSION No. AF029081

1	ggatcc	ctgc	ccctcc	acttctcc	caagcc	catgtt	ccggcatgg
61	ctcatgctgg	caatacttga	aacgggttta	ttaatgtgg	gtattttgc	caattttta	
121	gacctcttt	ctacatagtc	tttttaaat	ggaaggagaa	aatgtcagcc	acattactgt	
181	ctgttagtgg	ccaggtgaag	ggttatcaga	aggtctgggt	gtttaataa	gtttattcca	
241	agagaccttc	tggctggaaat	gagttagagat	gtgtgtgtcat	gtgtgtgtgt	gttcatgtgt	
301	gcccgtatg	aatgtggctg	gctcccaagat	ccctgggtt	gccccctgccc	ccatcccctt	
361	tgagtatcg	aagcaactctg	agccaaagggg	acagggggca	cgtgcactgg	tcacgagaaa	
421	accctgggt	cccactgggg	ctcagccag	cctccatct	ttccttcttc	tatggacttc	
481	agacagccag	tgtctggga	ctctggccact	ctaccccaag	ccctacccac	cagccccag	
541	gtgaggcttc	cagctggac	ctggccagac	aggtgagcc	tggcgctgg	gggtgggggt	
601	atggctctgg	ggagggcgt	ccatcctaca	agccacacc	cctccctgt	gctctgtaa	
661	tgggaccagg	tgccaggagg	tggaaagacaa	ggtgtttctg	ccaaacggga	cctccatccca	
721	gagaaaagga	agaagggtgca	gggtggggca	agaggcaagt	gaagggtggc	ctgagtctgg	
781	gccggaaact	cagaggatgt	ttctccctcg	ctgggagctg	tagtttctta	tcaaaataga	
841	tattgttcca	ccatccccct	ccttggccct	tcaagtggc	tgaaggccttg	gaaaatgaca	
901	taggaagtcc	ccagatcttgc	cccttcttca	tccagaggct	atgggtcaca	gacagctggg	
961	aatggcagcc	cctctggaga	aacagttca	cccaggccctc	agggccctgg	agggccctgg	
1021	gcatcaactgc	agtggccctg	ggaggtgagg	ctagaggagg	gggctcccac	gggctccac	
1081	ctacctttta	ttaagccag	tatttttgt	tctgtctgt	aataaaactt	cagtttataa	
1141	gagttgtctt	gcttttggtt	ttttttttgtt	ttgttttct	ttgtctgaggc	cccaactggg	
1201	agccctctgt	tcttcagac	aaatttggtt	ttttccctgg	gagactgtga	gaaggcaggc	
1261	agcccagtga	tctggctaca	ttttccctca	cttggcttga	gtctgtccg	ctggaggaaag	
1321	agcagagagg	gctgccccatg	agccccccatg	ggcacgtgaa	aagaggccat	cctgtccccc	
1381	ctttgtcccc	tccaccttcc	cctgcctcag	gggtctggag	accccaaat	cttctccct	
1441	actggctttc	cactccgatc	cccaatgagt	gcccaggctaa	gaaaatgttt	gagacagtag	
1501	attccagttt	gagagccgga	gtttccctgg	cttaccaccc	caaccctggc	accaggcccc	
1561	agccagacaa	ctcataaac	tggccccacc	tccctcgatc	ggacacccct	tcctcgatc	

FIGURE 6A

1621	caggattttg	ccatccctq	gaccgttct	cacaggcctga	ggggaggctta	caggcccttt	tgcagagggt
1681	tagctggtaa	gaccgttct	ccccctgtcgg	ccagcactgc	ccgctccct	ccacacacca	
1741	tctcatccctc	atcgcatgcc	tgcccaaccc	catggagccc	gtccatctgt	ctgggtgtg	
1801	gtgcgggtgt	tgtgctggtg	gtggtaggg	ctccagggac	tcccgctaa	gcagaaggat	
1861	cgggatata	ggcaaggct	aaagccagg	ccatttgtgg	actgaggaag	tacgttgcg	
1921	cagaggact	ctccagctgg	aagaggagg	ggaggttag	gctggggaga	ggatggcgaa	
1981	cctgcctga	ggtgctggg	tctgtgtgg	tgggtcctg	gtatgcagg	gccaccggtc	
2041	actaacactc	ttatgtccctg	gttttctgtc	ccgctgagc	tttctctac	cgccccgtt	
2101	tctctcctgc	ttcatatgcct	gctgcctaag	ccttggccct	tctctcggc	agaggcagg	
2161	gctgtggcag	cacctctccc	caccacggg	cccctgcagg	ccgcctccct	cctcccaggc	
2221	ctgctaacc	tctctcttct	ccttcttgc	tgtccttgc	ggatctcca	gtgtgtcg	
2281	gggcttaagg	acctccgtag	gaccgctgt	ctctgcctc	ccaggaatgg	cctgggggga	
2341	gccaggcacc	cggcactcc	acctgcctaa	cctgtggccc	atctgcacc	atctgtgcct	
2401	acagggtctg	cccccaaggc	tgcgggccc	gtgtgtctc	taggaccca	tagggcag	
2461	gggctggcct	ctttggccca	ttcccgctcc	atgcccggca	gaggtagaa	agccataacg	
2521	cacgcca	tcaagcaaat	aatgtgactc	tacgtctata	tgctccctct	ctcctccact	
2581	gacttcccct	tcccggattt	gtgagggtgtc	aagacttaga	atctggcctt	agaggctgcc	
2641	cctccacccc	ctcagatcag	gcatagccat	agtcaaggcc	agcaggttt	ctcaggagct	
2701	gtctgggtg	ttgtatgggg	atgacgtctgc	tgaacaagt	ttgtgactgt	tctaaggaca	
2761	actggcttgc	tactgttccc	acggccctgtc	cactccac	cccacaccc	ccaccaggat	
2821	aggtaggt	taggggggt	gggtggccc	tttgctctag	gcactgaggg	accaagctag	
2881	ccgtgcacag	ccccatacac	tcaaggggcg	taaaggaaag	agctgagcc	aggaaaatca	
2941	gctgagccca	gggctgggg	ctgctgtct	gctatccctgt	accttttt	tttttaacca	
3001	aaataaaat	tccccttcc	ttgcccatacc	atggctgtc	tgtggcc	tttactttgg	
3061	ggcccaggaa	tgggacttgc	agtggggcgtg	tggaaacat	ggctccccc	cgctcccagc	
3121	tttctccag	ctggccagtg	ctgctctgg	gatttacaag	cacaacgaa	ccaggaggaa	
3181	cacaggaaaa	gtggctgaca	ttcttttac	tctggccctc	cagaacttt	ggtctcaatt	
3241	ccagacacca	cccagcctta	gctgacctt	ggatttctgt	aggccctagt	gcaggctgag	
3301	acagagggtt	taactccagt	ttgggacttgc	catacccatg	aactgagccc	agcccagg	
3361	aacgatctca	tggaaacttc	tctctccca	gttgctgcac	tacatcaaga	tacacacatg	
3421	tgcatacact	gtactatgg	ctaaaaaaat	acgtaccgct	accgttca	aagggttgc	

FIGURE 6B

3481	cgagtccgg	gcccatttc	tcatcttaac	ctgtgaggag	gatgatgtca	gcctttac	
3541	agatgggaa	actggactc	aaggaagaaa	caggagtc	ccaagggtcac	ccagctggca	
3601	aaggcaaa	tcccagatcg	gaacctgtatc	tctgccccga	gctctgagcc	atctgcacta	
3661	ccaaaggaaat	gaatacagcg	gtggggggat	gagatcttgg	agaaacccta	aaatttagaga	
3721	atgtcatagc	cagtagaggg	cttagagttg	atctgggcca	gcctccctgt	tttactgtatg	
3781	gagaaattga	agcccaggagg	cagaaggga	cctggcccaag	gccttataac	agagctggga	
3841	tgcgatccca	cactctgacc	tcattccatt	ctcttccat	aaattctgca	ctgtctctag	
3901	actggactgg	tttagatgtg	ggataactcta	aacaggcgtg	cttcaagag	aaaaagaatc	
3961	agaactacga	atcaactaaa	agtaatgtaa	gctactctgg	gcacactgccc	tatgggtctcg	
4021	ccctgctcca	caaggagcca	caaaaataat	taaaaataat	taatatcccct	tcaccaaaagggt	
4081	aaccaggaaa	gtaaagctctt	ggcttaggtaa	ctggactctt	gttcacaact	agccagttggg	
4141	aaaagggtct	agagctccct	ctggccacct	gtttaatttg	atcattccaa	gacagaaaca	
4201	tttcttagga	agttttttct	agaatctacc	tggtgtccct	cccaactgcta	tcaagccct	
4261	gtcctctgtc	ctcagttggag	gttagagggca	aatggttgt	gctttcttca	tcacaacccct	
4321	tcaaaggcta	tttattaccag	ctaagaaggga	ttqgtgtact	atggccaga	gcccttgagc	
4381	ctgctggtag	aatggatgtct	gtacaggagg	gtggggggat	aggaggcaga	atgagaaag	
4441	cccccggtag	ctgcaacccc	agctccctgtc	ctqgtgactic	agacagtgt	ctgtggagct	
4501	ccatggccctg	ccaggggctg	ctggcctctg	ccqgtctgt	ctcctgtact	tggaaaatgg	
4561	aggcccaggag	gcaaaagggg	gtacctgtaga	cagaactgt	gtcaggatca	acaggccaga	
4621	ggggcagga	ggtatcaggc	aggctggctc	ccagatgcac	ccctgagctc	cagcagggg	
4681	ggagtaggaa	tgaaggggct	tccttgcct	tgctcatggc	tatgcccgg	gcgtgaacca	
4741	ccaccaggtc	ctctggctta	agtggcgggg	agcaaatgg	ccctccctgg	actcaggctc	
4801	caaaggctt	gggcctggct	tccagggtcc	cagtgtccctg	ggatctcccg	ctttccccag	
4861	gacttgggg	agccccggct	ggatgacttag	tacaaatgaa	ggcccccgtag	gttccaggac	
4921	ctgctgagggt	cacaggaata	tccttagatca	agcttgcctaa	acccacggcc	cacaggctgc	
4981	atgtggccca	gaaatggctt	gaatgcggcc	caacacaat	tagtaaactt	tcttaaaaca	
5041	ttatgagatt	ttttttggaaa	tttttttttt	tttttttagt	catcagttat	tggtagtgtt	
5101	ggatatttt	atgtgtggcc	caagacaatt	cttccaatgt	ggcccaatgt	agccaaaaga	
5161	ttggacacgc	ctgtccatcg	tggagggggaa	ggagggcagtgt	ctgaggcacat	ctggccattc	

FIGURE 6C

5221	atccatctgg	agagagaagg	ctatggggcaa	actggcttcc	ctcccccgtt	ctccctgtt	actggcttcc	ctcccccgtt	gacaccacgc
5281	tggaaaggtc	tggcctttgg	taagtcctgg	ttgatcata	ttgatcata	taaagtgtac	ttgatcata	ttgatcata	cacagaacct
5341	aactctatgt	tagtgccttg	ttagtata	ttgatcata	ttgatcata	taaagtgtac	ttgatcata	ttgatcata	gggattttt
5401	cacatgataa	taataggttgt	catctggccg	ggcatgggtgg	ttatgccta	taattcagc	ttatgccta	ttatgccta	cagcctggcc
5461	actttggaaag	gctgaggcag	gtggatca	tggatcact	tggatcact	tgaggtcagc	tggatcact	tggatcact	agctgggtgt
5521	aacatggtga	aaccacatct	ctacttaaaa	aaaaaaa	aaaaaaa	tacaaaaatt	aaaaaaa	aaaaaaa	tcacttgcac
5581	ggtgggtgcac	ccttgttaatc	ccagctactc	gggaggctga	gggaggctga	ggcaggagaa	ggcaggagaa	ggcaggagaa	tcacttgcac
5641	ccaggagggtg	gaggttgcag	tgagctgaga	ttgtgcccact	acactccagc	ctgggtgaca	ctgggtgaca	ctgggtgaca	ctgggtgaca
5701	agagcggaaac	tccgtctcaa	aaaaaaagaa	aataataata	aataataata	ataatagtgt	ccatccattc	ccatccattc	ttacaggAAC
5761	tacttgctt	tccatthaact	cgtgttaatcc	tcacaagg	tcacaagg	cattttatag	tcacaagg	tcacaagg	ttacaggAAC
5821	ttagggtcac	agagcttaaa	tcacttggcc	aaggccacaa	aaggccacaa	acagctataa	acagctataa	acagctataa	gaattacatt
5881	taggcgtct	gattccaaag	atacttagtct	attctgtatc	attctgtatc	tcatagacaa	tcatagacaa	tcatagacaa	acaatacata
5941	ttcactttt	tgttgtgtt	ttgttgtttag	acggagtctt	gctctgtcac	ccaggctgg	ccaggctgg	ccaggctgg	ccaggctgg
6001	gtgcgtggc	gccatctcg	ctcaactgca	cgtccggcct	ccgggttcaa	gcgattctcc	ccgggttcaa	ccgggttcaa	ccgggttcaa
6061	tgcctcagcc	tcccggatgt	ctgggactac	aggcatgtgc	caccatgccc	ggcttaatttt	ggcttaatttt	ggcttaatttt	ggcttaatttt
6121	ttgttatttt	atgttagaca	gggtttccct	gggttagcca	gaatgggtctc	gatctcctga	gatctcctga	gatctcctga	gatctcctga
6181	ccttggtatc	caccaccc	agcctccaa	atgtgtgaga	tgacaggcg	gagccacccg	tgacaggcg	tgacaggcg	tgacaggcg
6241	gtccggaccta	tattcactat	ttataaattt	gagaaataa	gaaatcaaa	aggccacgg	gaaatcaaa	aggccacgg	aggccacgg
6301	gtatgtactc	acacctgtaa	tcccagact	ttggaaagcc	aaggcaggag	gattgtctga	gattgtctga	gattgtctga	gattgtctga
6361	accggaaatgt	tcgagaccag	cctggggcaac	atggtgagac	cctgtctcta	caaaaataac	caaaaataac	caaaaataac	caaaaataac
6421	aaaaatttagc	tgggcgttgt	ggtgaggacc	ttattcttag	gaaggtgagg	caggaggatc	ttattcttag	gaaggtgagg	caggaggatc
6481	acctggggcc	aaggagggtt	agactgcgt	gagctgtgt	cataccactg	tacttcagc	gagctgtgt	cataccactg	tacttcagc
6541	tggacatcag	agtaagaccc	tatctctaaa	aaggaaattt	agaagaaagg	aaatcaaagg	agaagaaagg	agaagaaagg	aaatcaaagg
6601	gaagaaaaat	cactca	cactac	agataccctca	tgatccctc	tattttagtg	tgatccctc	tgatccctc	tattttagtg
6661	tggttccat	tgtttctgt	gtcagttctc	tgatccctc	tgatccctc	aaaatctttt	tgatccctc	tgatccctc	ggacgtcaaa
6721	cttaaaatcc	cctttacttc	cttggaaaacc	ctgttagcat	agccagaca	tgtccctact	agccagaca	tgtccctact	tgtccctact
6781	cctccctgtg	gcaaaggagaa	gatctcg	tttggtccccc	aggttctgg	cctaaggccctc	tttggtccccc	tttggtccccc	cctaaggccctc
6841	cctccaggag	ggaaggatgt	ttttcagaca	ctcagatgt	ctgggggaga	cacaggccctg	ctcagatgt	ctgggggaga	cacaggccctg
6901	tgaattatc	ctggctcaac	tattagttcg	gcagaatccc	agtggaaagg	gccctaccc	gcagaatccc	gcagaatccc	gcagaatccc
6961	ttagcccat	ctaaggccat	ctaaggccat	gctatgggtg	ggggcagataa	gcagggaaatcc	atccctataa	atccctataa	atccctataa

**FIGURE 6D**

7021	gctcaatgcc	aacaccctta	ggtggaaactc	ttgatgaaac	ttgagggcag	ggctccggca
7081	aggaggaaa	gaacgtggc	aacagaggtc	tccatctcg	aggactctcg	caggggtcag
7141	agatgggca	atggcaaaa	ggaaggaaaca	ggcaggcac	agtggctcat	gccataatc
7201	ccagcactt	gggaggctga	ggcaggagga	tcgcttggc	ccaggagtt	gagacctgcc
7261	tggcaatgt	agttagatct	gctctctatt	taaaaaaaa	aaaaggaaa	gaacaagtaa
7321	acttctgaga	aaaggctgg	ggaggccatc	acgtagctgg	aattgtgcc	ccataaaaca
7381	gaatggatg	tgtcactgcc	acctccctt	ctcaagtccctc	tctctccca	ggtttgctagc
7441	gtccccctgg	gggatcaaacc	tggactgtt	cccaaggcctca	gacagagagc	agtctgagtc
7501	aggcaggaaa	gtgggacagc	ggggaggctg	gacccccacc	tctgtgagcc	ccgctgtac
7561	ctgatggcat	gtggcttgg	gagggcagggt	gacctggcg	ggagggccag	aggtaaatac
7621	ctcaaaacaag	tggcaacagg	ccacaactt	gaaaggaaa	atttgttagt	gatggaaat
7681	gtgtccaaaca	aacctactgg	gtgactaatt	acaaggctg	ggcttggagct	tcagaggctg
7741	cttgttaaac	acttcattaa	gccccactt	gaaaagctg	acctgcgc	tctggagct
7801	cagaggggac	cctgagggggg	atggggcct	ggaggatgg	accatctca	ggtagactga
7861	gaaggaggct	ggatctact	tccaaacaca	gtctggagct	cataggctcg	aggcctaata
7921	ggagaaaaag	ctaaaggaaag	agggtcgaga	aaggagttt	agggaaattgg	tggctatgt
7981	actttgagca	aatctcaccc	ctctctgaga	cttagtgttc	ccatctctat	ggtcctgtgt
8041	gtgtcacaga	gacatggtgg	ggattaaatt	cgatcggtat	atgaaagtgc	ttggaaact
8101	ccatggccct	acctaatacat	gagttatccct	cacgtgaac	aaggggaaa	gttacctggc
8161	aggattagga	accccatctt	cctgaaacctt	tatggctct	gtcgaggctg	aaggaggcag
8221	gggctaaagg	cagtccttag	ccccctggaa	ggcaactgtga	aagtggatct	gatttgagaa
8281	gccgtttcct	gatgtggca	gccccatgtgt	gccagccccg	aacaagaggg	ggcagccctgg
8341	aggctggaaa	ggtgccagg	cagggtgggg	ccacggcccg	attttccctg	ctgactgttc
8401	tgatgattca	ccccccacatc	ccaggccttt	tacctttact	gcagagccgg	aaagggtgt
8461	ggaaagagag	gagaggagg	caggctttgg	gccctggtc	cgccccctgc	tcctcccac
8521	ccttctctgg	gcctggccac	ccaggccaaa	ggcaggccaa	gaggaggaga	gacacagagt
8581	ccggcatttgg	tcccaggcag	cagtttagccc	gccggccggc	tgtgtgtccc	cagaggccatg
8641	gagagggcca	gtctgatccca	gaaggccaaag	ctggcagagc	aggccgaacg	ctatgaggac
8701	atggcagccct	tcatgaaaagg	cgccgtggag	aaggggcagg	agctctccctg	cgaaggaggcga

**FIGURE 6E**

8761	aacctgctct	cagtagcccta	taagaacgtg	gtggggccgc	agagggctgc	ctggagggtg
8821	ctgtccagta	ttgagcagaa	aagcaacgag	gaggggctcgg	aggagaaggg	gccccgggtg
8881	cgtgagtacc	gggagaaggt	ggagactgag	ctccagggg	tgtgcacac	cgtgctgggc
8941	ctgctggaca	gccacccat	caaggaggcc	ggggacggcc	agagccgggt	cttctacactg
9001	aagatgaagg	gtgactacta	ccgctacctg	gcccgggtgg	ccaccgggtga	cgacaagaag
9061	cgcattatcg	actcaggcccg	gtcagccctac	caggaggcca	tggacatcag	caagaaggag
9121	atgcccggca	ccaaaccat	ccgcctgggc	ctqccctgta	acttttccgt	cttccactac
9181	gagatcgcca	acagccccga	ggagggccatc	tctctggca	agaccactt	cgacgaggcc
9241	atggctgatc	tgcacaccct	cagcggagac	tcctacaagg	acagaccctt	catcatcgag
9301	ctgctggcag	acaaccgtgac	actgtggacg	gccgacaagg	ccggggaaaga	ggggggcgag
9361	gctcccgagg	agccccaggag	ctgagtttg	cccgccacgg	ccccccctg	ccccctccag
9421	tccccccaccc	tgcccgaggagg	actagtatgg	ggttggaggc	cccacccctc	tcccctaggc
9481	gctgttcttg	ctcccaaaagg	ctcccggtggag	aggactggc	agagctgagg	ccacctgggg
9541	ctggggatcc	cactcttt	gcagctgttg	ccggccacca	accactggtc	atgcccccac
9601	ccctgctctc	cgcaccggct	tcctcccgac	ccaggacca	ggctacttct	ccctctctct
9661	tgcctccctc	ctgccccctgc	tgcctctgtat	cgttagaaat	gaggaggtgc	ccgcctgtgt
9721	gctgagaact	ggacacgtggc	ggggcgtgg	gatgggtgtg	tgtgtgtgt	tgtgtgtgt
9781	tgtgtgcgcg	cgcgcccagtg	caagaccggag	actggggaa	agcatgtctg	ctgggggtgtga
9841	ccatgtttcc	tctcaataaa	gttcccctgt	gacactccctc	ctgtctctct	tccagttct
9901	ggcgatggc	tgggagttgg	actggaaatct	gacttagaga	ccctgacttt	ggacacctgt
9961	gttagggccc	tgaactccct	aggtagccatc	gtggcccgca	cgcaagactt	tgagtccagg
10021	ttagggccgg	gtcc				

**FIGURE 6F**

## H. sapiens Wilms tumor (WT1) gene promoter.

ACCESSION No. X74840

1	agcttgcagc	cccaagccccgg	gcccagccagg	tacaggaggc	cgggactgcaa	cggttgcctt
61	ccctcccgtc	gcgcctggcc	gtccccacgg	gcgcggctcg	tgtctggcc	tggcgccccct
121	gggattttat	acgcacacct	gaaacacggct	ccgcctccggc	ccccgggttct	tctccttgcc
181	taggggttgt	ttcccaatacg	atactgactc	cttttagaaga	tccaaaaacc	aaaccaaaac
241	accgcctacc	cggcccaaac	actgtctcg	gggcgcgggg	gctgccaaac	agagactaga
301	cgaaggagg	cagatttagc	gaantctcg	agctcccaa	gattcgaaaca	ctaactcg
361	cccggtggcc	gtggagggtt	ctccctactc	cactccttgg	tccccccta	tggcttccgc
421	ctccctggtca	atcactgagg	aaccagaatg	gtatccatcg	ccagggccac	aggcagggtct
481	cggcggagg	gtccaggag	ttaccccgctc	ctggccggct	tctgtatccaa	accctccctt
541	tcacccctcc	tccccaaact	gggcggcagg	atggctccgg	cggaaataac	gcagggtttg
601	ggcggttggc	caagggttt	cttccctctt	aaactagccg	ctgtttccc	ggcttaaccg
661	tagaagaatt	agatattctt	cactggaaag	ggaaactaag	tgtgtgtac	tccaaattta
721	ggtagggcgc	aaccggttcc	gcctggcgca	aacctacca	agtaaacaac	tactaggcga
781	tcgaaatacg	cccggtttat	aactgggtgc	actccggcc	acccaactga	gggacgttgc
841	cttccagttcc	cgacctctgg	aaccacaaaa	ggggccacctc	tttcccagt	gacccaaaga
901	tcatggccac	tccccctaccc	gacagttcta	gaagcaagag	cgagactcaa	gggtgc当地
961	caagggtata	cgttcttttg	aagcttgc	gagttcttc	tgaagtccc	tttttagat
1021	gcccctttgg	aggcttacctg	ccctccctc	caaaccactc	acaacccat	ttttagat
1081	ctctactccc	accgcattcg	accctgc	gactca	ttacctgt	ttttagat
1141	gtgagacgag	gctcccacac	tggcgaaggc	caagaagggg	gggtgggggg	agggttgtgc
1201	cacaccggcc	agctgagagc	gctgtttgg	ttgaaggaga	gggtgtctcc	gagaggagac
1261	cuccctcggg	cccgccctca	cccccagctgc	gagggcggccc	ccaaggagca	gcgcgcgcgt
1321	cctggccggg	cttgggctgc	ttagtgaatg	gaggcggccga	gcctcctggc	ttctcccttt
1381	ccccggcccg	ccggccccc	tttgggaa	tttgggaa	caggggcaggc	caggggcaggc

FIGURE 7A

1441	gggttaaggag	ttcaaggcag	cgccccacacc	cggggctct	ccgcaacccg	accggcctgtc
1501	cgtccccca	cttcccgcccc	tccctccac	ctactattc	accaccac	ccacccagag
1561	ccgggacggc	agcccaggcg	cccgggcccc	gcccgtctcc	cggcgcgatc	ctggacttcc
1621	tcttgctgca	ggacccggct	tccacgtgt	tcccgaggcc	ggcggtctcag	cacacgttcc
1681	gctccggcc	tgggtgccta	cagcaggccag	agcaggagg	agtccgggac	cggggggca
1741	tctggccaa	gttaggcgcc	gcgaggcca	gcgctgaacg	tctccaggcc	cggaggagcc
1801	gcggggcgtc	cgggtctgag	cctcaggaaa	tgggtccga	cgtgcgggac	ctgaacgcgc
1861	tgtctggcc	cgtccccctcc	ctgggtggcg	gcggcggtctg	tgccctggcct	gtgaggcgccg
1921	cggcgcgtg	ggggccgggt	ctggactttg	cggcccccgg	cgcttcggct	tacgggtcggt
1981	tggggggccc	cggccggcca	ccggctccgc	cggccccc	gccggccggcc	cctcactcct
2041	tcatcaaaca	ggagccgagc	tggggcgccg	cggagccgca	cgaggaggcag	tgcctgaggcg
2101	ccttcaactgt	ccactttcc	ggccaggttca	ctggcacagc	cggagccctgt	cgctacgggc
2161	ccttcggcc	tcctccggcc	agccaggct	catccggcca	ggccaggatg	tttccctaacg
2221	cgcctactt	gcgcaggctgc	ctcgaggagcc	agcccgat	tcgcaatcag	gttaagttagg
2281	ccggggggcg	cccccata				

FIGURE 7B

Estrogen Receptor (ER): Homo sapiens estrogen receptor beta gene, promoter region  
and partial cds  
Accession Number AF191544

```

1 actataggc CGCGtggtC GaCGgccCG gctggattg atagatgcattttttccacc
61 ctccacattc tttttctgcc tggggctta tggtgaaat tccttcattga CGgtttccat
121 ttccagagat atcttgtta caagtataa ccaccaaatg aagctgattt tttttttt
181 ttttttga gacagagtct CGctctgtCG cccatggctgg aatgcaggatgg GCGatcttg
241 gctcactgca acctCGcc cccatgttca agCGattctc ctgcctcagg ctcctgagta
301 gctggattt ctggcatgtg ccacCGCGtc cagcaattt ttgtatttt agtagagaCG
361 agtttccacc atgttgtca ggctggitctc aaacctcctga cctCGtgatc cacctgctc
421 ggcctccaa atgtgtgaga ttatagggtt gaggcaccat gcctggccat gaagctgatt
481 ttttaaaccc atcatttAAC attttctcca taagggtggca agggggaa gcatatgggg
541 actgggtact ttgagagacc ccaggacagg agacaggagg gctgaggatgg gcatgttgc
601 tgctgcaattt atttgcaggC Gacacactct ttccCGccaa actaactct ctgcctcaag
661 gacaggaga ctctgcctt caacctgaga gaaaccaggaa ctctcagtt taatgaaaat
721 tggacttagg gggggcaggat gggactttt cacagctatt gtttagctga tgaaggagat
781 gcttccat ctttggagcc tggggctat acctgtggac ctcatctta tcaacccaga
841 gcacacttgC Gtctcttat tttggctaaa caccAAACAG ctgaggctgg tactgtaaaa
901 ctttccctcc aaatggccccc cctCGttttc ctctattaga gatctggatc acaaccccta
961 aaaaccatgt cccttatggc acctgaggtag atgggtttagt gataattag gacacatgt
1021 gacactgggg gggctcaca atggccgtt ggtcacatgc tactttcctt ttcattttca
1081 tcagcaacag ctgccttaaa gccaggatggactgtggcc tagtctCGca ccctggggct
1141 cctgtgggg tgggtgggg gaacacccca ttaaggctgg ggaactgggg ctgcccacag
1201 gggCGCGag gggcccttCGcc CCGagaagg gggttggcag gtcctccCG tgccacttca
1261 CGCGtgggC Gaggacacag gtctccCG cccatgtgacc tcttgagggc tgagaaccca
1321 tggatctt gatctaaCG Gaaaggccct cccatgtgacc actccaggcc CGagggttac Ctttgctgt
1381 ctccctccac ctcttagcc CGctttgc actccaggcc CGtttgctgt
1441 gggatttga caaacccaaa gcctctctgg tttcaccat ggctcccttag aatcagacat
1501 ctgttctgaa tgacactt gtgagtcagg ggctgaggac GtgatccCG aagtgtgtc
1561 cccagactgg ctgtatctt gtCGcatcc cccaggacct ggttggaaat gcatattctc
1621 agggccctact taaatctgag actggggctg CGggaggCG catctgtgCG

```

FIGURE 8A

FIGURE 8B

Unmethylated 2.88 % BP G GATG CTCG GATTC TGG FUM 21 BP AT 60

**TG** agttTGaTG ggttttgg

Methylated 181 bp

CCggaaaag tacCCttCC t

CGaaccGGta cttttcccc RM 20 BP AT 60

FIGURE 8C